

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF022119\
 Data File : VF061701.D
 Acq On : 21 Feb 2019 16:39
 Operator : VA/AP
 Sample : K1345-03
 Misc : 5.38g/5mL/MSVOA-F/SOIL
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 HD-01-022019

Quant Time: Feb 22 03:29:28 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F021319S.M
 Quant Title : SW846 8260
 QLast Update : Thu Feb 14 03:27:56 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.88	168	357726	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.60	114	585441	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.78	117	474590	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.55	152	227388	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	4.85	65	120712	46.02	ug/l	0.00
Spiked Amount			Recovery	=	92.04%	
35) Dibromofluoromethane	4.12	113	181190	41.68	ug/l	0.00
Spiked Amount			Recovery	=	83.36%	
50) Toluene-d8	7.56	98	445355	35.63	ug/l	0.00
Spiked Amount			Recovery	=	71.26%	
62) 4-Bromofluorobenzene	11.42	95	185873	36.76	ug/l	0.00
Spiked Amount			Recovery	=	73.52%	

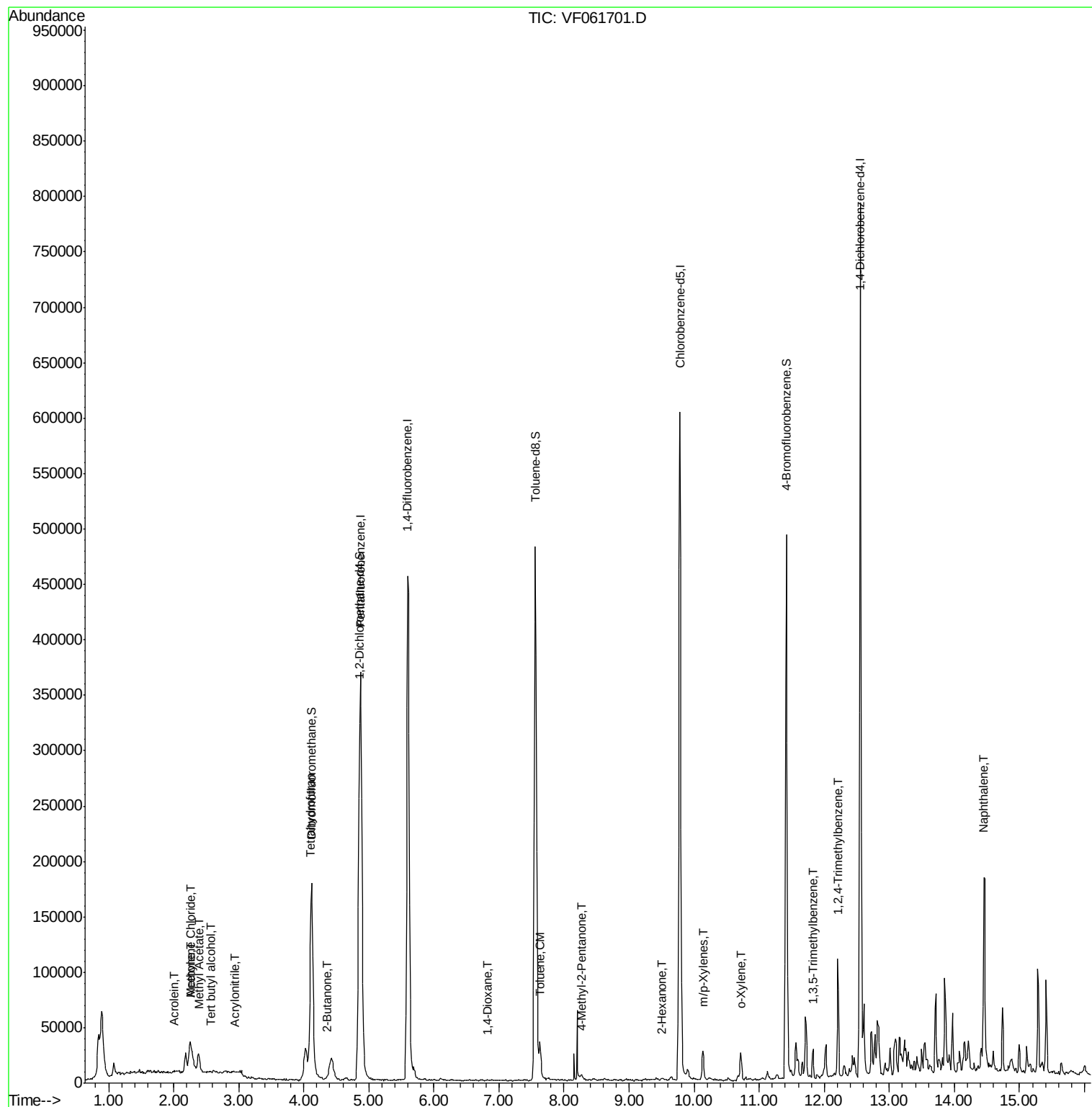
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	2.58	59	352	2.319	ug/l #	63
13) Acrolein	2.01	56	687	3.600	ug/l	98
15) Acrylonitrile	2.95	53	746	1.385	ug/l #	53
16) Acetone	2.25	43	18336	32.578	ug/l	93
18) Methyl Acetate	2.38	43	7660	6.041	ug/l #	59
20) Methylene Chloride	2.26	84	16845	3.227	ug/l	95
25) 2-Butanone	4.35	43	3750	3.050	ug/l	98
29) Tetrahydrofuran	4.10	42	1902	3.404	ug/l	92
49) 1,4-Dioxane	6.81	88	62	3.437	ug/l #	1
51) 4-Methyl-2-Pentanone	8.27	43	4508	1.979	ug/l	90
52) Toluene	7.63	92	16637	1.808	ug/l	88
59) 2-Hexanone	9.50	43	2528	1.583	ug/l	64
68) m/p-Xylenes	10.13	106	9135	1.490	ug/l	89
69) o-Xylene	10.72	106	6959	1.064	ug/l	95
80) 1,3,5-Trimethylbenzene	11.83	105	14549	1.124	ug/l	97
84) 1,2,4-Trimethylbenzene	12.20	105	49076	3.818	ug/l	98
95) Naphthalene	14.46	128	137040	14.734	ug/l	97

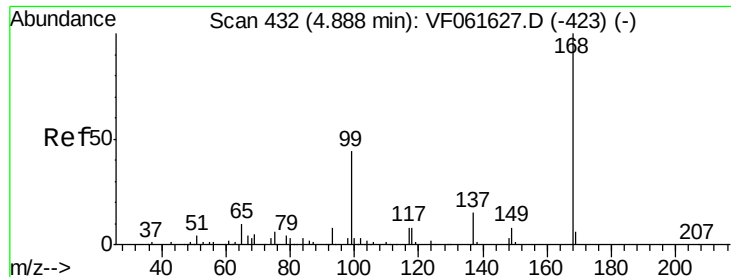
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.88 min Scan# 431

Delta R.T. -0.01 min

Lab File: VF061701.D

Acq: 21 Feb 2019 16:39

Instrument :

MSVOA_F

ClientSampleId :

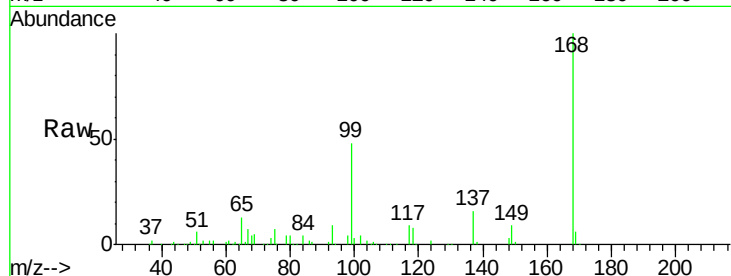
HD-01-022019

Tot Ion:168 Resp: 357726

Ion Ratio Lower Upper

168 100

99 48.3 34.9 52.3



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.88

120000

100000

80000

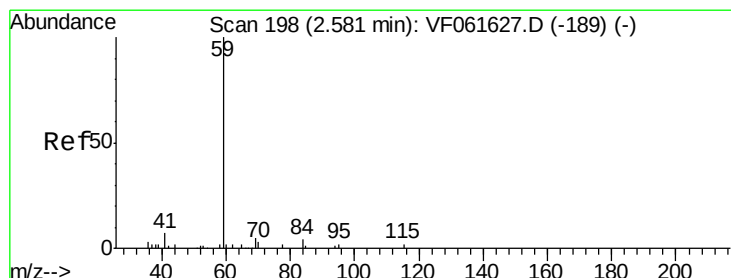
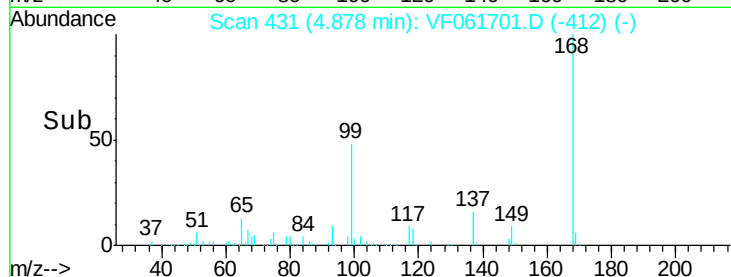
60000

40000

20000

0

Time-->



#11

Tert butyl alcohol

Concen: 2.319 ug/l

RT: 2.58 min Scan# 198

Delta R.T. -0.00 min

Lab File: VF061701.D

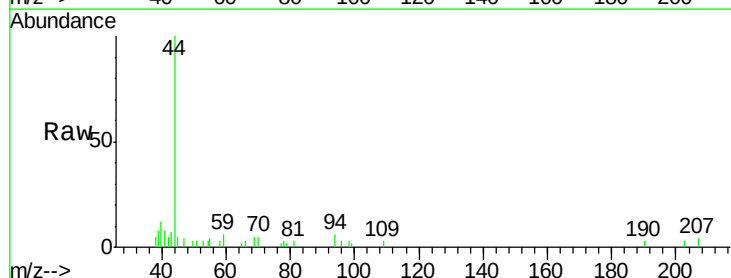
Acq: 21 Feb 2019 16:39

Tgt Ion: 59 Resp: 352

Ion Ratio Lower Upper

59 100

57 0.0 12.5 18.7#



Abundance Ion 59.00 (58.70 to 59.70): VF0

Ion 57.00 (56.70 to 57.70): VF0

2.58

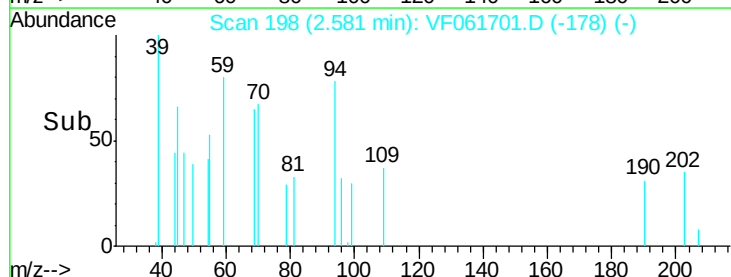
300

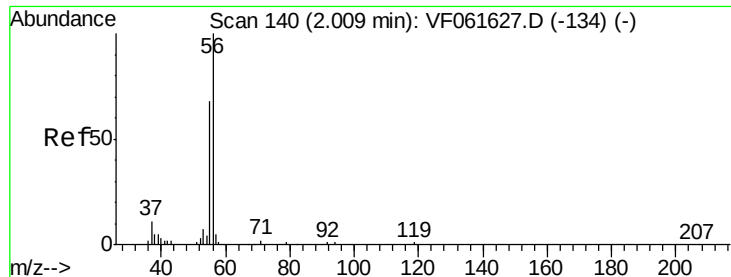
200

100

0

Time-->





#13

Acrolein

Concen: 3.600 ug/l

RT: 2.01 min Scan# 140

Delta R.T. -0.00 min

Lab File: VF061701.D

Acq: 21 Feb 2019 16:39

Instrument :

MSVOA_F

ClientSampled :

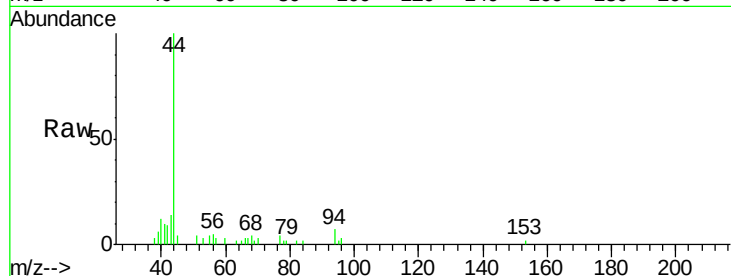
HD-01-022019

Tot Ion: 56 Resp: 687

Ion Ratio Lower Upper

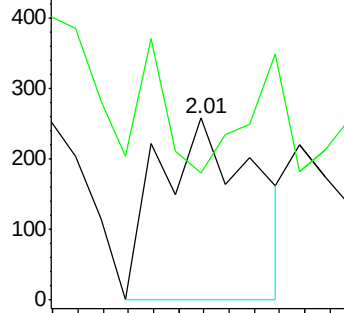
56 100

55 70.2 55.0 82.6

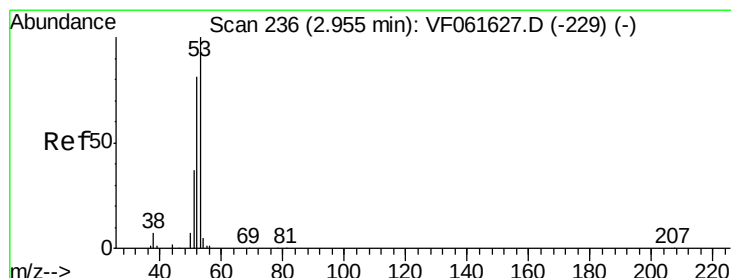
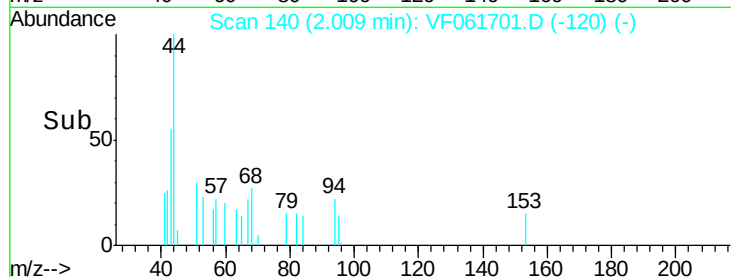


Abundance Ion 56.00 (55.70 to 56.70): VF0

Ion 55.00 (54.70 to 55.70): VF0



Time--> 1.95 2.00 2.05



#15

Acrylonitrile

Concen: 1.385 ug/l

RT: 2.95 min Scan# 235

Delta R.T. -0.01 min

Lab File: VF061701.D

Acq: 21 Feb 2019 16:39

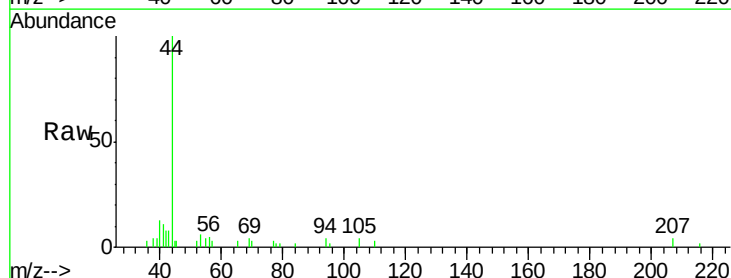
Tgt Ion: 53 Resp: 746

Ion Ratio Lower Upper

53 100

52 45.4 64.6 97.0#

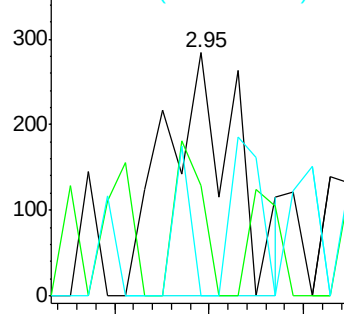
51 0.0 29.8 44.8#



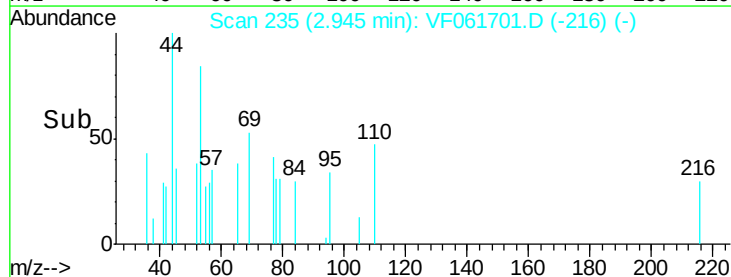
Abundance Ion 53.00 (52.70 to 53.70): VF0

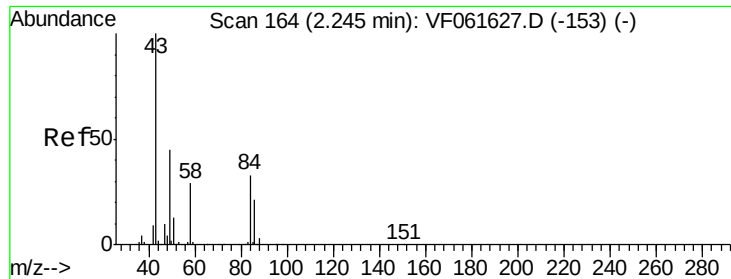
Ion 52.00 (51.70 to 52.70): VF0

Ion 51.00 (50.70 to 51.70): VF0



Time--> 2.90 2.95 3.00





#16

Acetone

Concen: 32.578 ug/l

RT: 2.25 min Scan# 164

Delta R.T. -0.00 min

Lab File: VF061701.D

Acq: 21 Feb 2019 16:39

Instrument :

MSVOA_F

ClientSampleId :

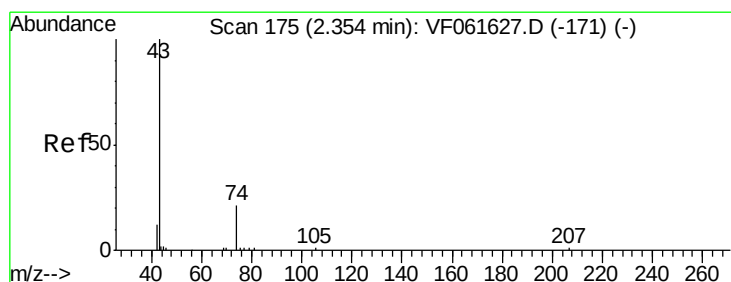
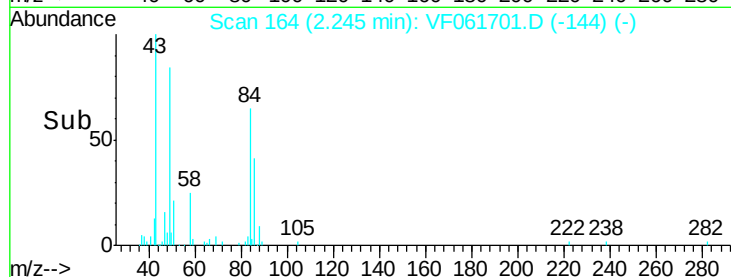
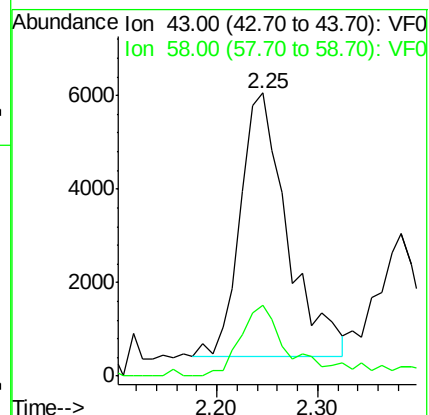
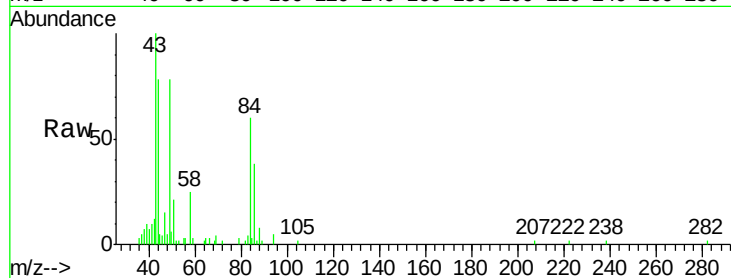
HD-01-022019

Tot Ion: 43 Resp: 18336

Ion Ratio Lower Upper

43 100

58 25.1 22.9 34.3



#18

Methyl Acetate

Concen: 6.041 ug/l

RT: 2.38 min Scan# 178

Delta R.T. 0.03 min

Lab File: VF061701.D

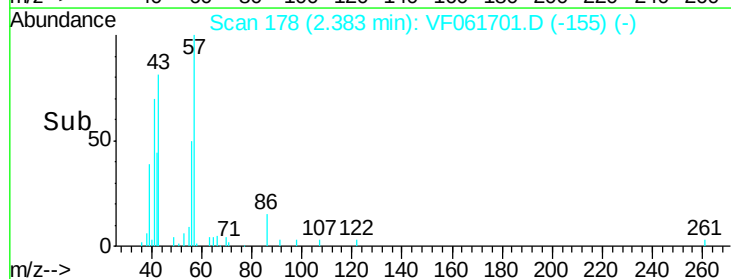
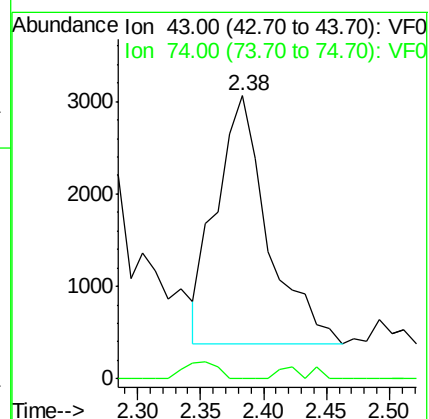
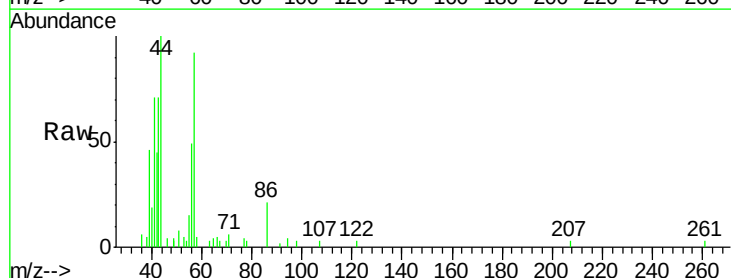
Acq: 21 Feb 2019 16:39

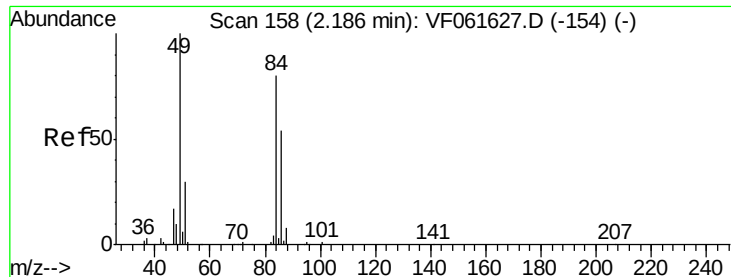
Tgt Ion: 43 Resp: 7660

Ion Ratio Lower Upper

43 100

74 0.0 14.6 21.8#





#20

Methylene Chloride

Concen: 3.227 ug/l

RT: 2.26 min Scan# 165

Delta R.T. 0.07 min

Lab File: VF061701.D

Acq: 21 Feb 2019 16:39

Instrument :

MSVOA_F

ClientSampleId :

HD-01-022019

Tot Ion: 84 Resp: 16845

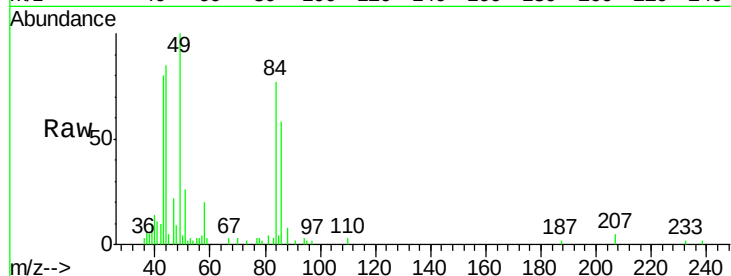
Ion Ratio Lower Upper

84 100

49 129.4 101.8 152.8

51 33.8 31.1 46.7

86 75.1 54.4 81.6

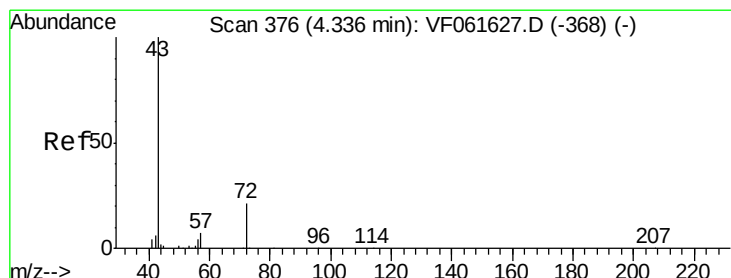
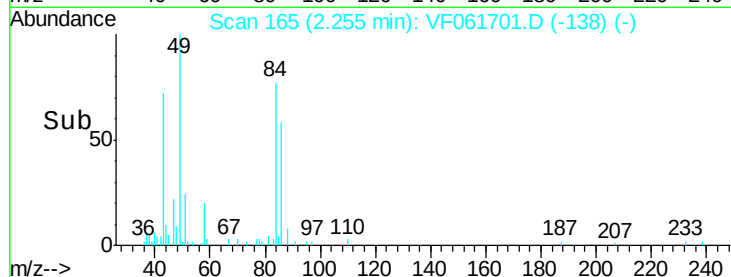
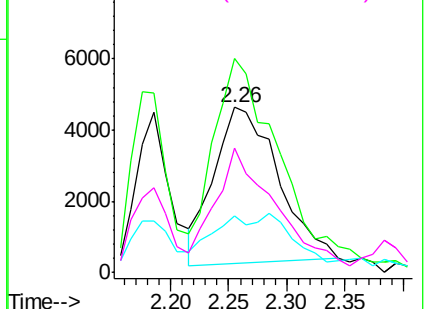


Abundance Ion 84.00 (83.70 to 84.70): VF0

Ion 49.00 (48.70 to 49.70): VF0

Ion 51.00 (50.70 to 51.70): VF0

Ion 86.00 (85.70 to 86.70): VF0



#25

2-Butanone

Concen: 3.050 ug/l

RT: 4.35 min Scan# 377

Delta R.T. 0.01 min

Lab File: VF061701.D

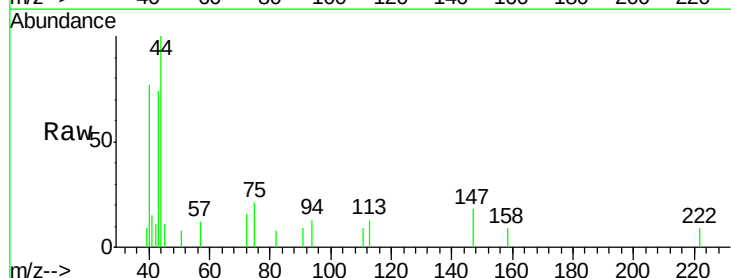
Acq: 21 Feb 2019 16:39

Tgt Ion: 43 Resp: 3750

Ion Ratio Lower Upper

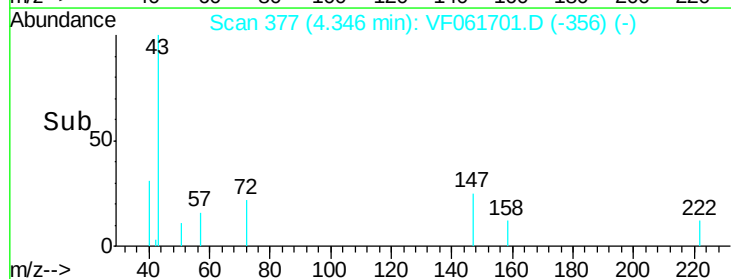
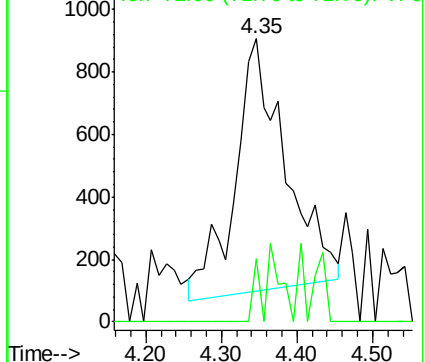
43 100

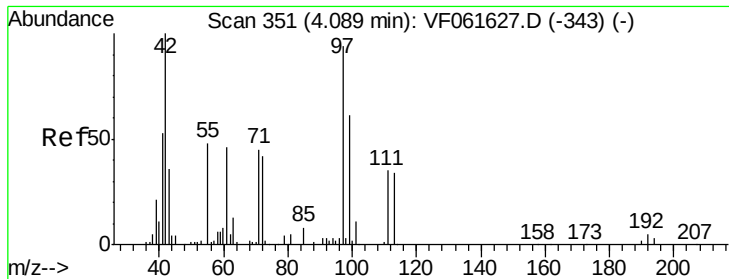
72 22.3 17.1 25.7



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 72.00 (71.70 to 72.70): VF0

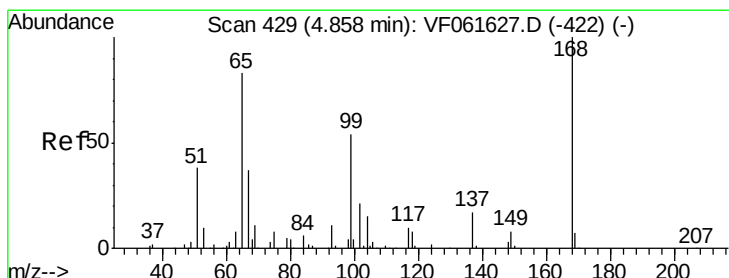
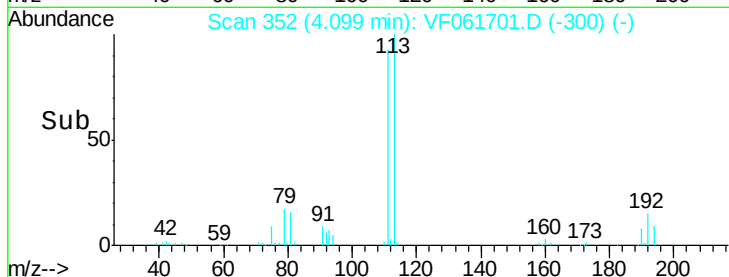
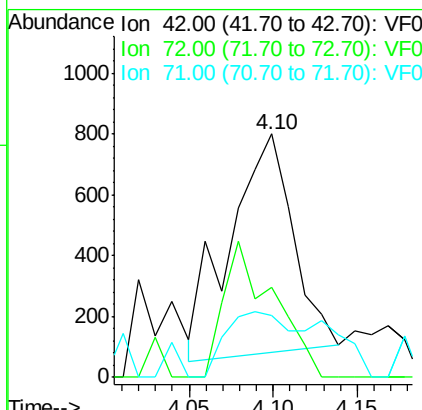
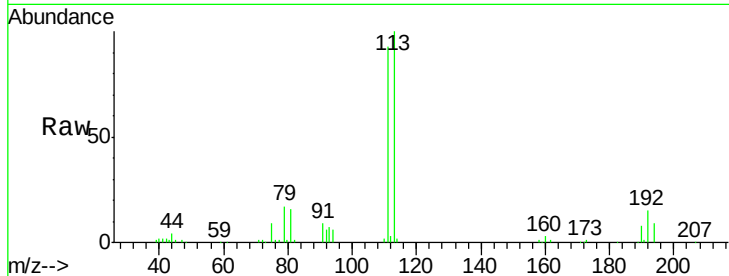




#29
Tetrahydrofuran
Concen: 3.404 ug/l
RT: 4.10 min Scan# 352
Delta R.T. 0.01 min
Lab File: VF061701.D
Acq: 21 Feb 2019 16:39

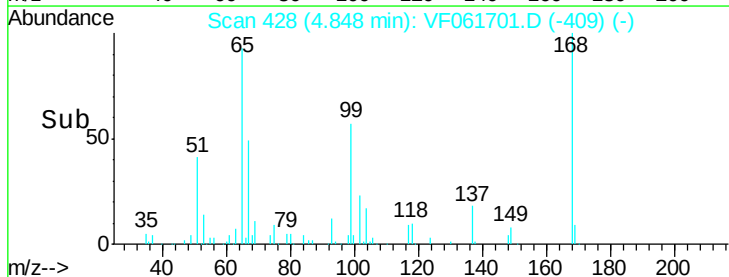
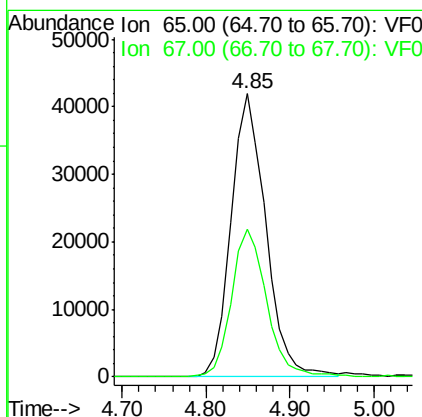
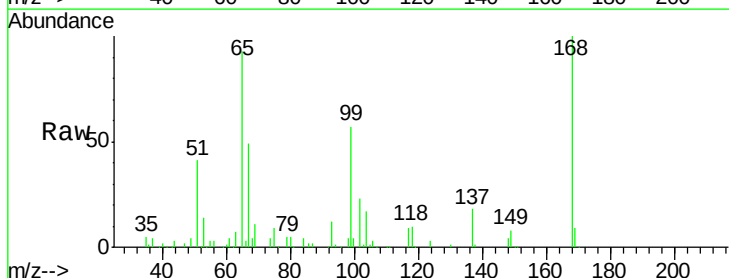
Instrument :
MSVOA_F
ClientSampleId :
HD-01-022019

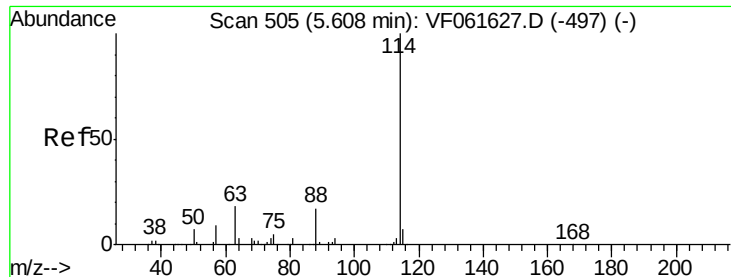
Tot Ion: 42 Resp: 1902
Ion Ratio Lower Upper
42 100
72 48.3 35.2 52.8
71 46.6 32.9 49.3



#33
1,2-Dichloroethane-d4
Concen: 46.016 ug/l
RT: 4.85 min Scan# 428
Delta R.T. -0.01 min
Lab File: VF061701.D
Acq: 21 Feb 2019 16:39

Tgt Ion: 65 Resp: 120712
Ion Ratio Lower Upper
65 100
67 52.2 0.0 104.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.60 min Scan# 504

Delta R.T. -0.01 min

Lab File: VF061701.D

Acq: 21 Feb 2019 16:39

Instrument :

MSVOA_F

ClientSampleId :

HD-01-022019

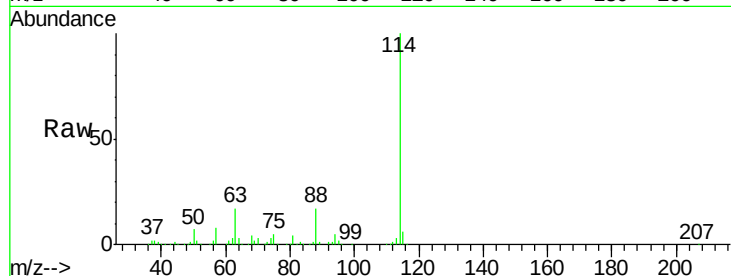
Tot Ion:114 Resp: 585441

Ion Ratio Lower Upper

114 100

63 17.2 0.0 36.6

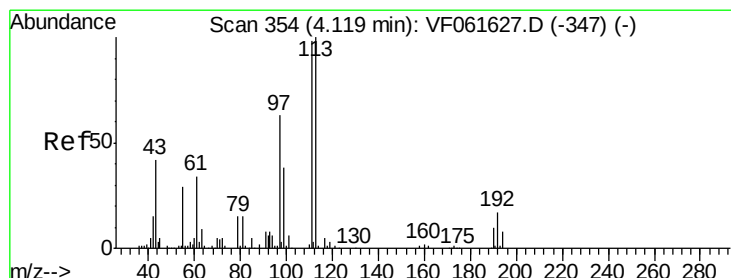
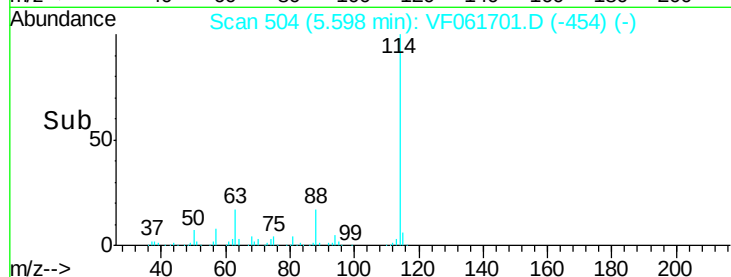
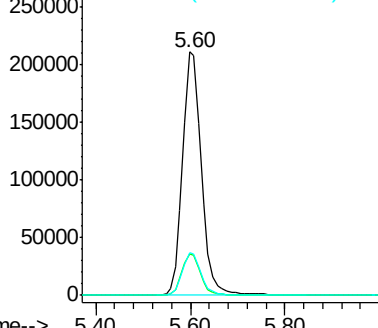
88 17.4 0.0 34.4



Abundance Ion 114.00 (113.70 to 114.70): V

Ion 63.00 (62.70 to 63.70): VF0

Ion 88.00 (87.70 to 88.70): VF0



#35

Dibromofluoromethane

Concen: 41.677 ug/l

RT: 4.12 min Scan# 354

Delta R.T. -0.00 min

Lab File: VF061701.D

Acq: 21 Feb 2019 16:39

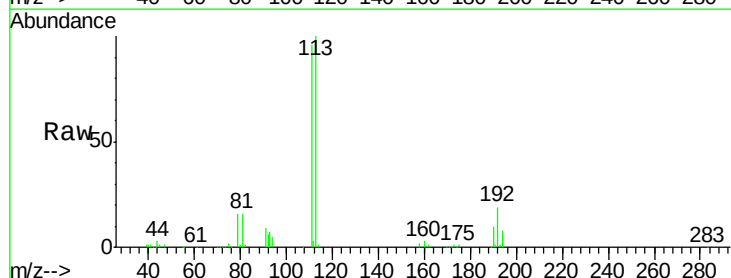
Tgt Ion:113 Resp: 181190

Ion Ratio Lower Upper

113 100

111 96.3 78.8 118.2

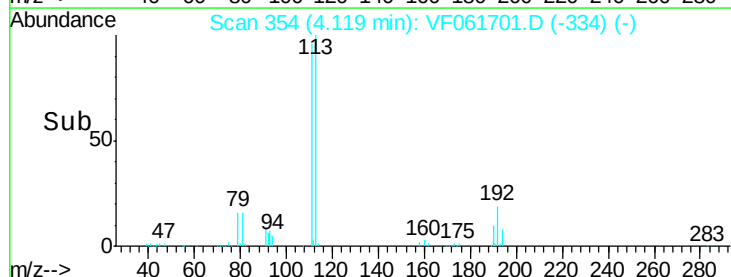
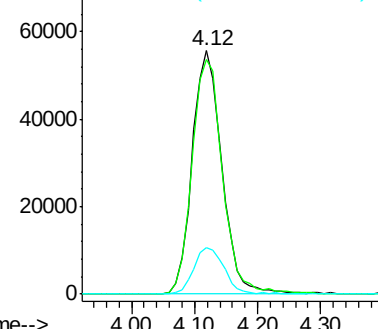
192 19.2 13.4 20.0

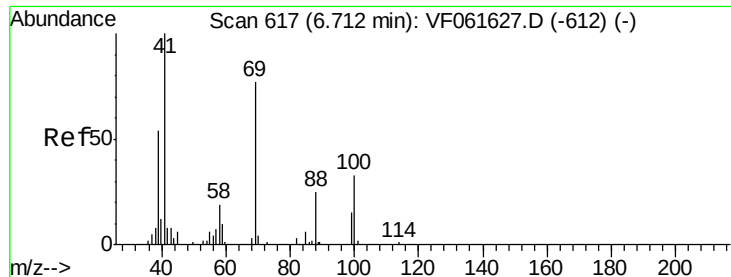


Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V





#49

1,4-Dioxane

Concen: 3.437 ug/l

RT: 6.81 min Scan# 627

Delta R.T. 0.10 min

Lab File: VF061701.D

Acq: 21 Feb 2019 16:39

Instrument :

MSVOA_F

ClientSampleId :

HD-01-022019

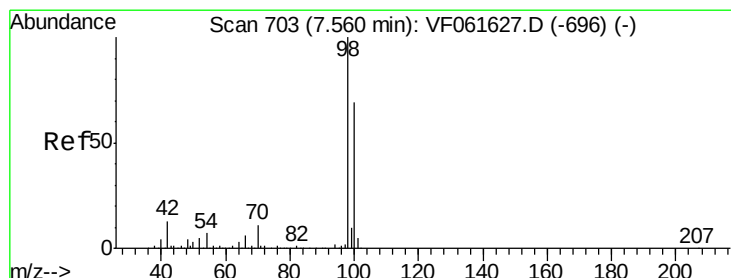
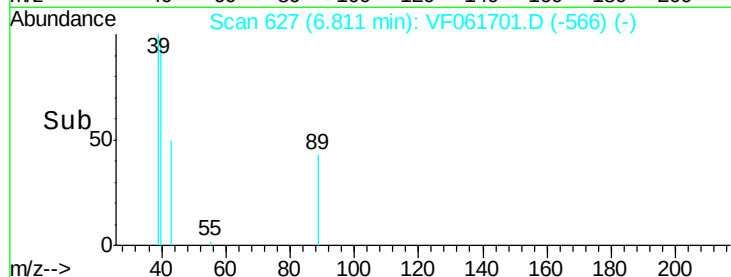
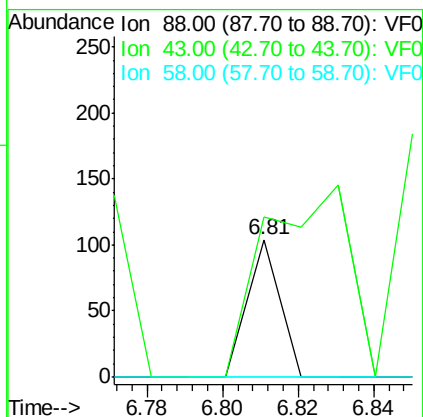
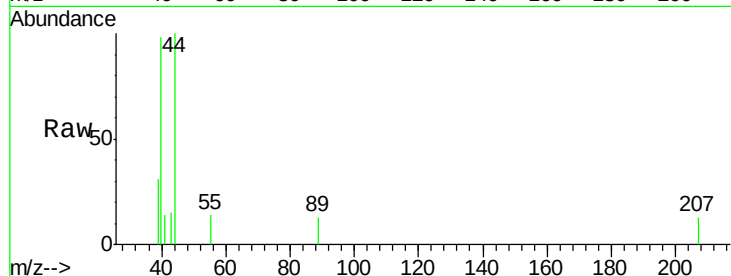
Tot Ion: 88 Resp: 62

Ion Ratio Lower Upper

88 100

43 116.3 32.3 48.5#

58 0.0 59.4 89.2#



#50

Toluene-d8

Concen: 35.634 ug/l

RT: 7.56 min Scan# 703

Delta R.T. -0.00 min

Lab File: VF061701.D

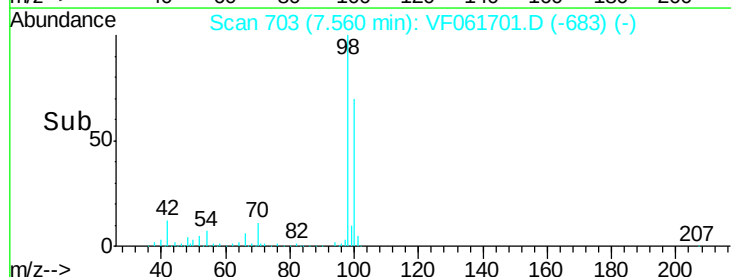
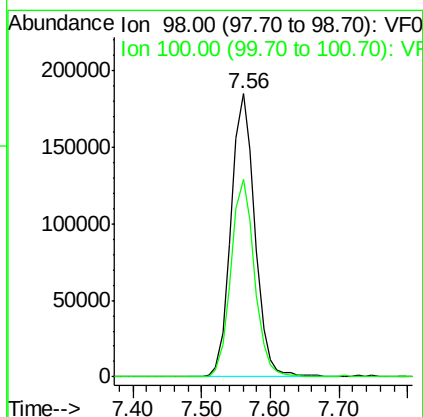
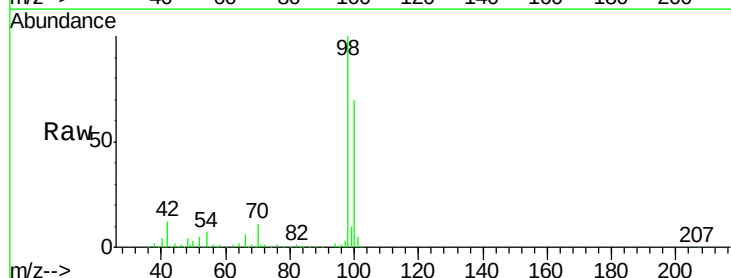
Acq: 21 Feb 2019 16:39

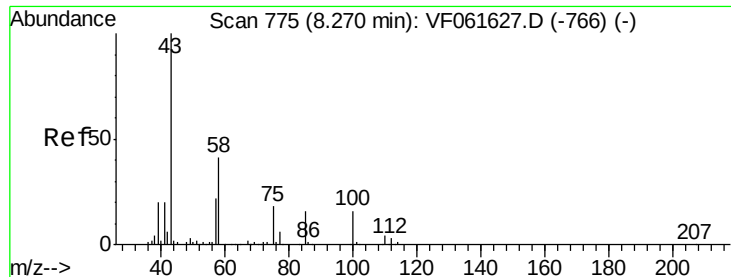
Tgt Ion: 98 Resp: 445355

Ion Ratio Lower Upper

98 100

100 69.7 55.4 83.2





#51

4-Methyl-2-Pentanone

Concen: 1.979 ug/l

RT: 8.27 min Scan# 775

Delta R.T. -0.00 min

Lab File: VF061701.D

Acq: 21 Feb 2019 16:39

Instrument :

MSVOA_F

ClientSampleId :

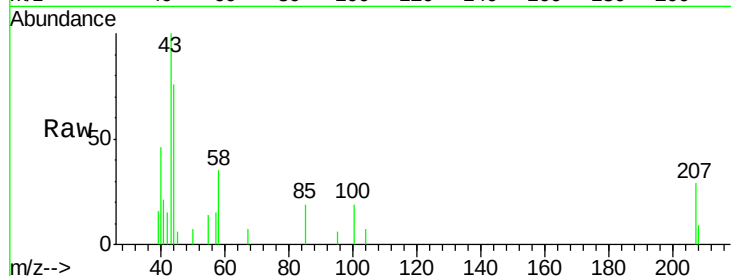
HD-01-022019

Tot Ion: 43 Resp: 4508

Ion Ratio Lower Upper

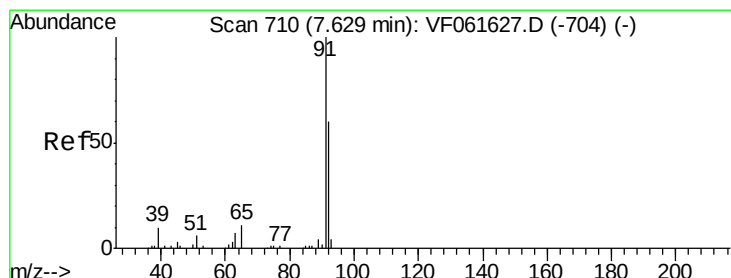
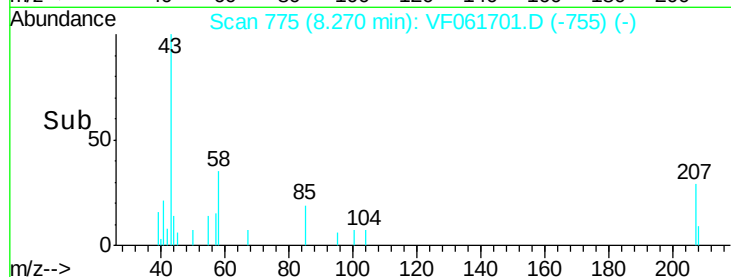
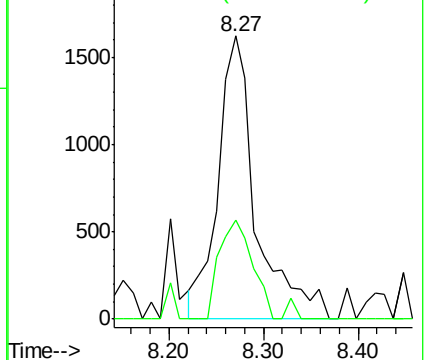
43 100

58 35.1 33.1 49.7



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#52

Toluene

Concen: 1.808 ug/l

RT: 7.63 min Scan# 710

Delta R.T. -0.00 min

Lab File: VF061701.D

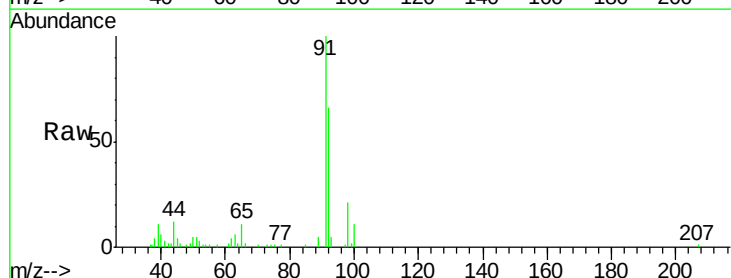
Acq: 21 Feb 2019 16:39

Tgt Ion: 92 Resp: 16637

Ion Ratio Lower Upper

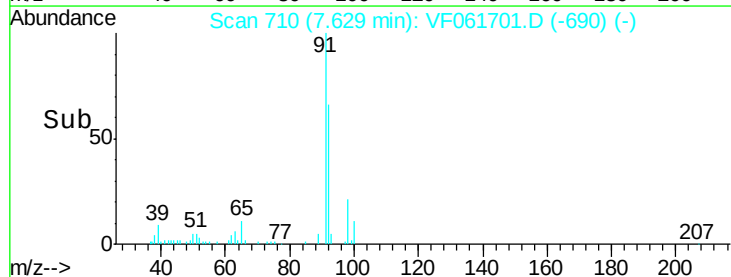
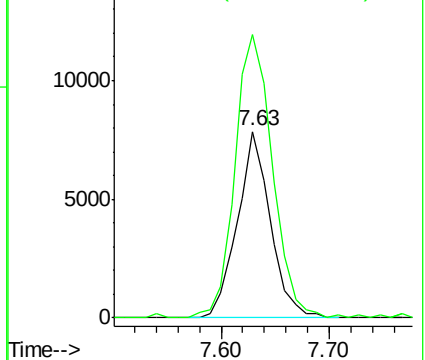
92 100

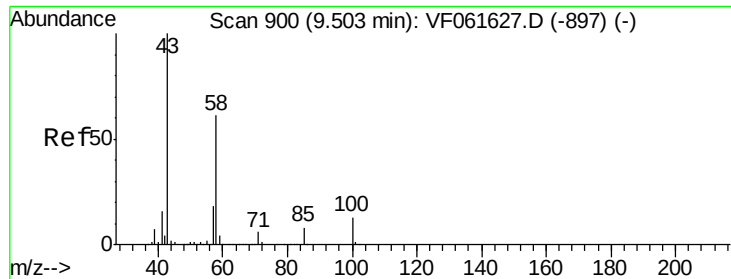
91 151.7 133.9 200.9



Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0

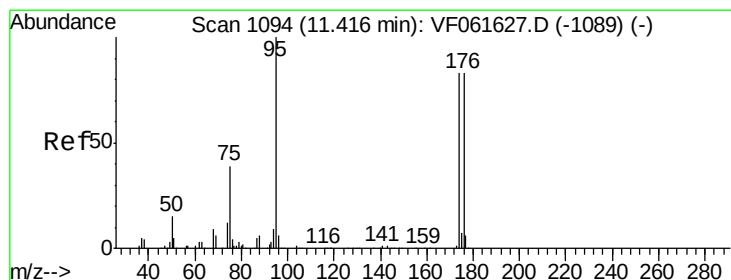
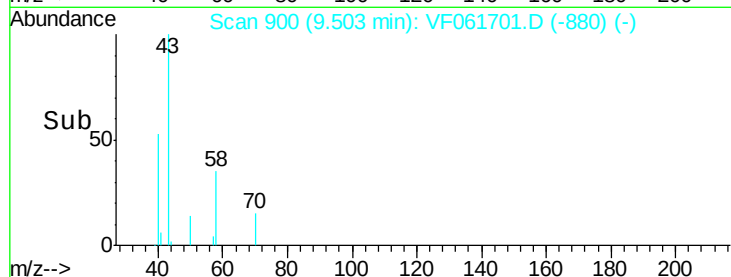
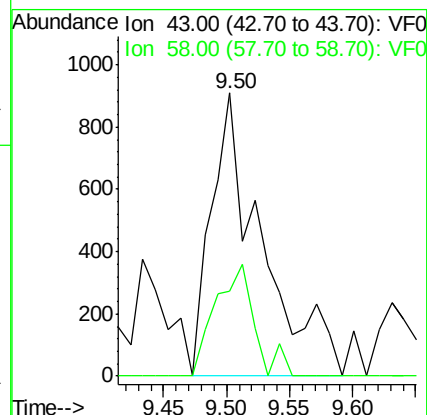
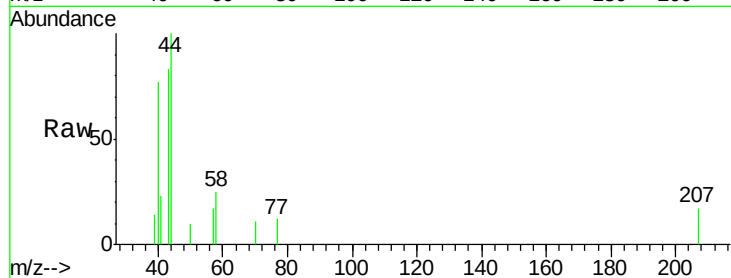




#59
2-Hexanone
Concen: 1.583 ug/l
RT: 9.50 min Scan# 900
Delta R.T. -0.00 min
Lab File: VF061701.D
Acq: 21 Feb 2019 16:39

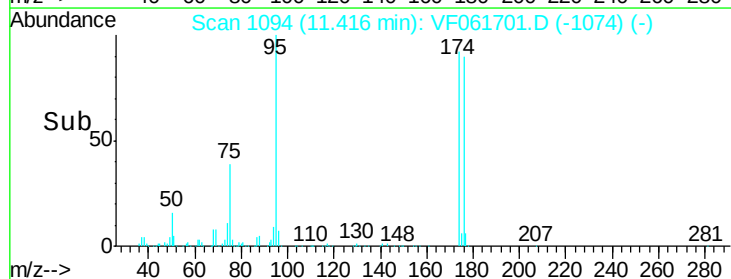
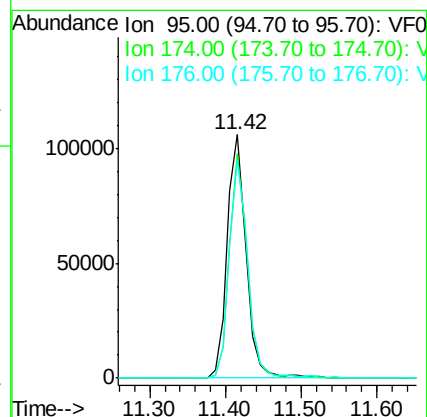
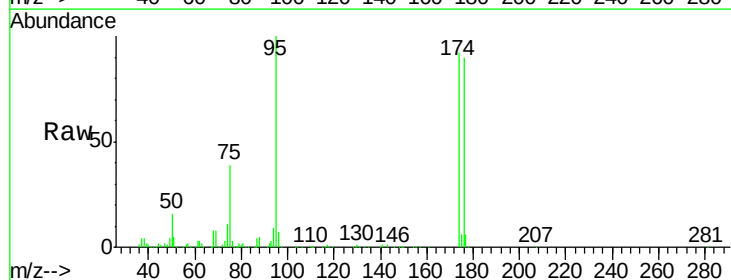
Instrument :
MSVOA_F
ClientSampleId :
HD-01-022019

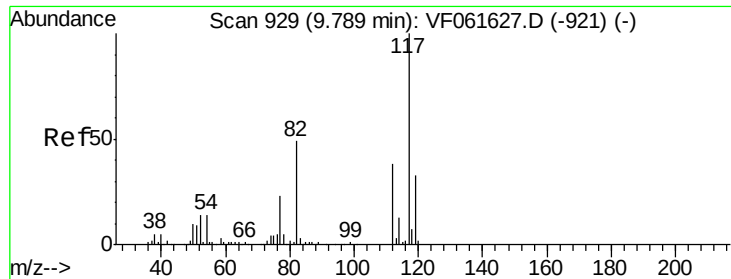
Tot Ion: 43 Resp: 2528
Ion Ratio Lower Upper
43 100
58 30.1 28.5 85.5



#62
4-Bromofluorobenzene
Concen: 36.757 ug/l
RT: 11.42 min Scan# 1094
Delta R.T. -0.00 min
Lab File: VF061701.D
Acq: 21 Feb 2019 16:39

Tgt Ion: 95 Resp: 185873
Ion Ratio Lower Upper
95 100
174 92.2 0.0 165.8
176 89.8 0.0 167.0

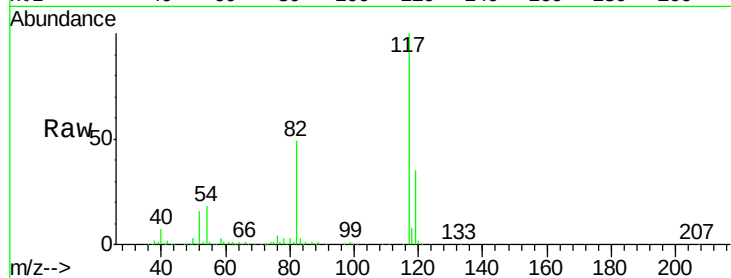




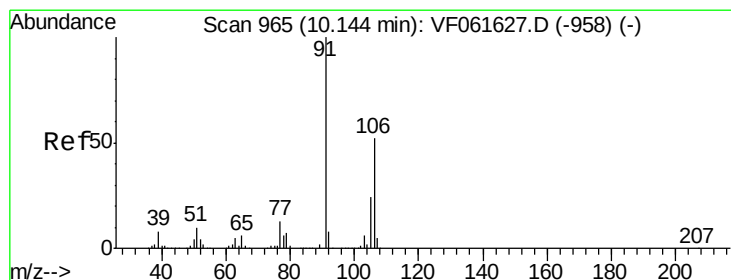
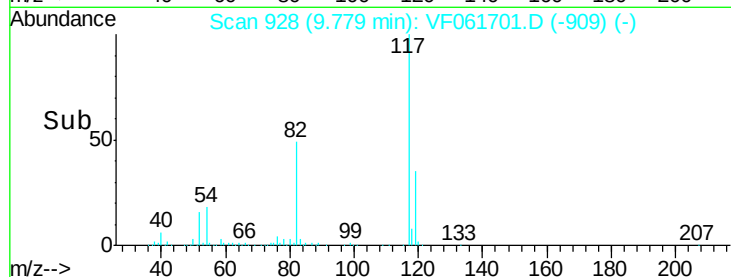
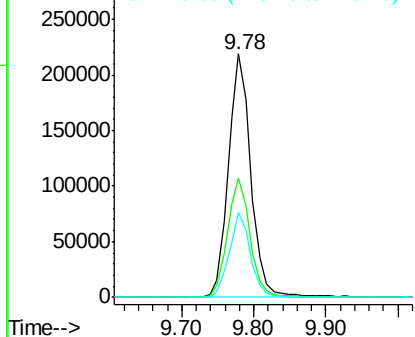
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.78 min Scan# 928
Delta R.T. -0.01 min
Lab File: VF061701.D
Acq: 21 Feb 2019 16:39

Instrument :
MSVOA_F
ClientSampleId :
HD-01-022019

Tot Ion:117 Resp: 474590
Ion Ratio Lower Upper
117 100
82 49.0 39.3 58.9
119 34.6 26.6 40.0

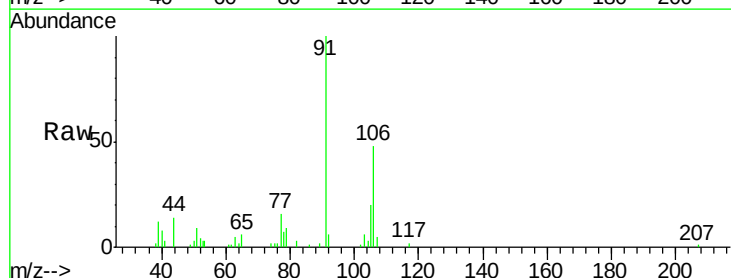


Abundance Ion 117.00 (116.70 to 117.70): V
Ion 82.00 (81.70 to 82.70): VF0
Ion 119.00 (118.70 to 119.70): V

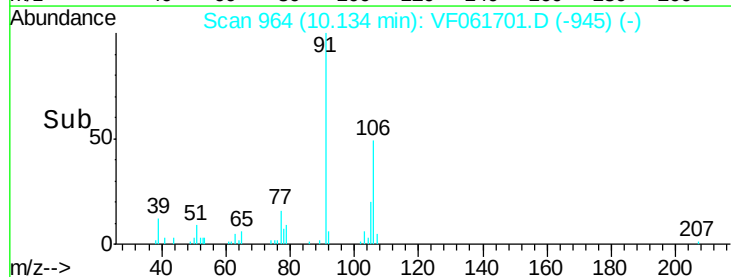
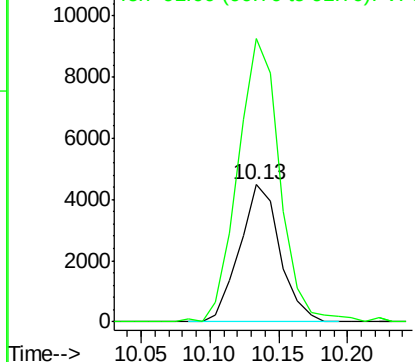


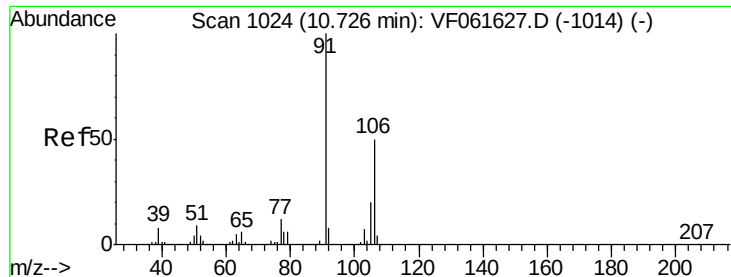
#68
m/p-Xylenes
Concen: 1.490 ug/l
RT: 10.13 min Scan# 964
Delta R.T. -0.01 min
Lab File: VF061701.D
Acq: 21 Feb 2019 16:39

Tgt Ion:106 Resp: 9135
Ion Ratio Lower Upper
106 100
91 206.8 153.0 229.6



Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VF0

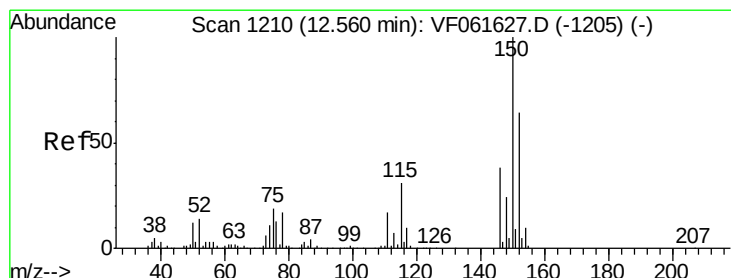
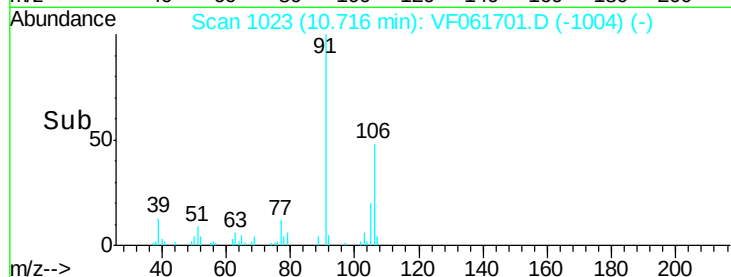
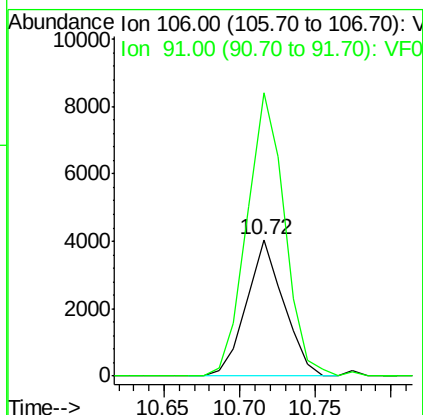
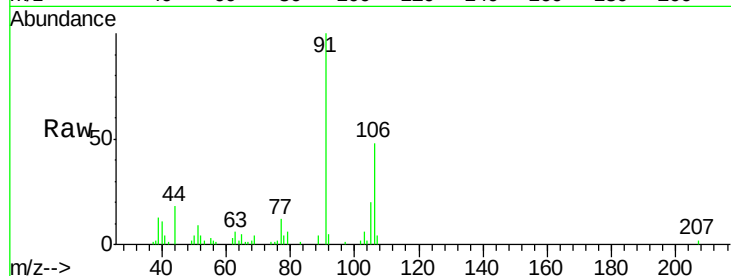




#69
o-Xylene
Concen: 1.064 ug/l
RT: 10.72 min Scan# 1023
Delta R.T. -0.01 min
Lab File: VF061701.D
Acq: 21 Feb 2019 16:39

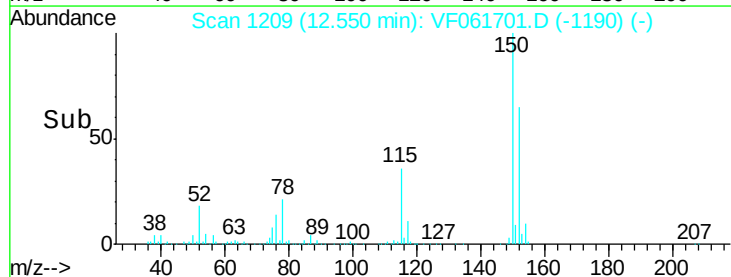
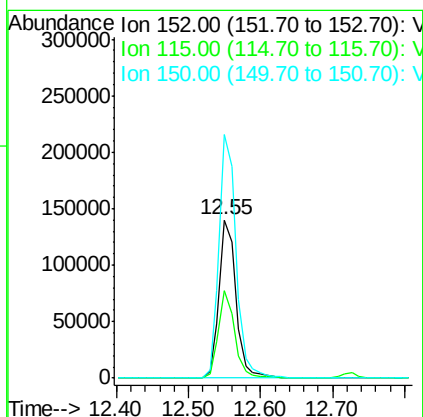
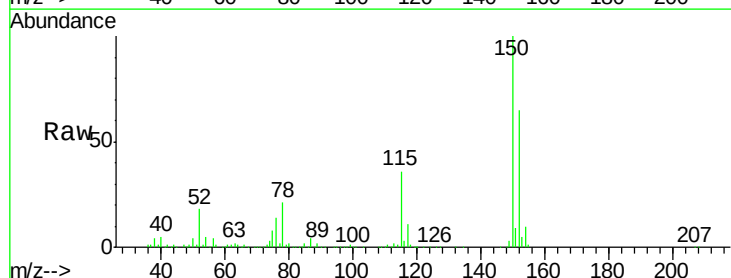
Instrument :
MSVOA_F
ClientSampleId :
HD-01-022019

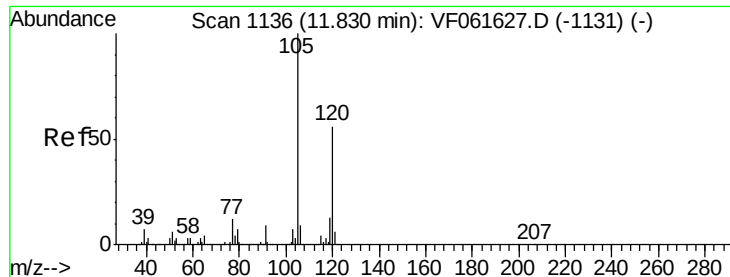
Tot Ion:106 Resp: 6959
Ion Ratio Lower Upper
106 100
91 207.4 100.1 300.1



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.55 min Scan# 1209
Delta R.T. -0.01 min
Lab File: VF061701.D
Acq: 21 Feb 2019 16:39

Tgt Ion:152 Resp: 227388
Ion Ratio Lower Upper
152 100
115 55.3 24.3 72.8
150 154.0 0.0 312.0





#80

1,3,5-Trimethylbenzene

Concen: 1.124 ug/l

RT: 11.83 min Scan# 1136

Delta R.T. -0.00 min

Lab File: VF061701.D

Acq: 21 Feb 2019 16:39

Instrument :

MSVOA_F

ClientSampleId :

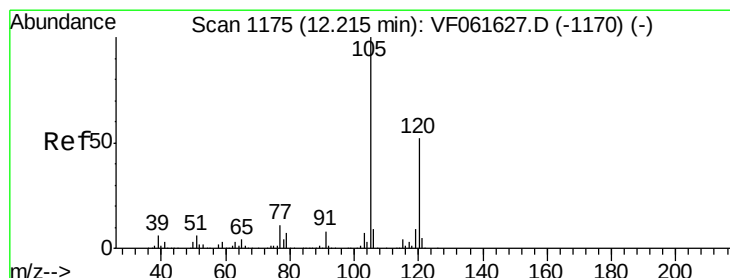
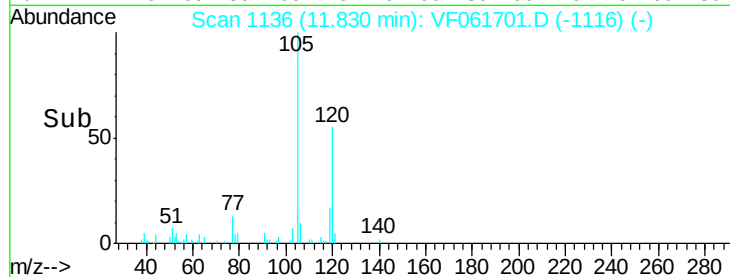
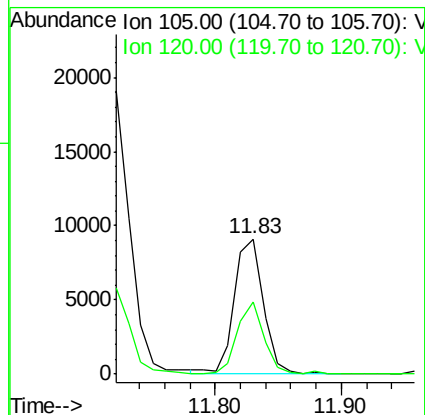
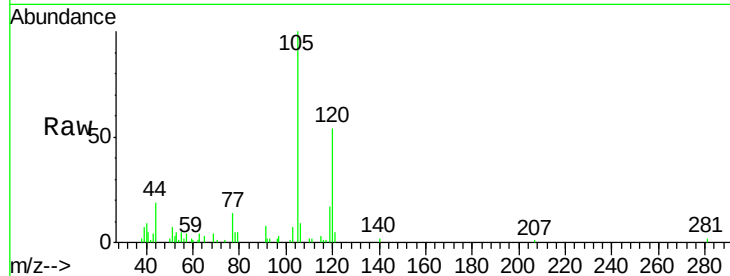
HD-01-022019

Tot Ion:105 Resp: 14549

Ion Ratio Lower Upper

105 100

120 53.8 27.9 83.6



#84

1,2,4-Trimethylbenzene

Concen: 3.818 ug/l

RT: 12.20 min Scan# 1174

Delta R.T. -0.01 min

Lab File: VF061701.D

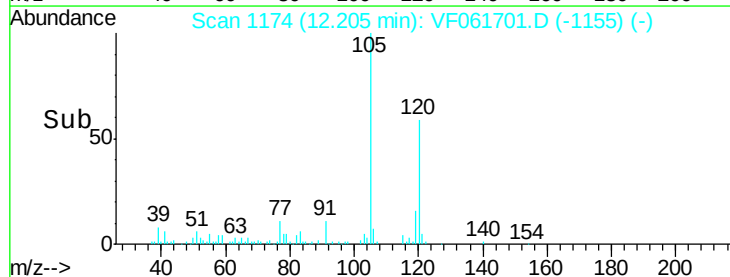
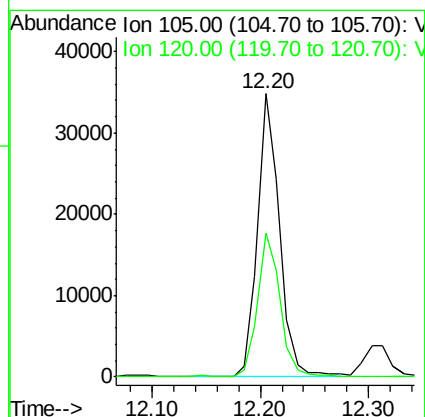
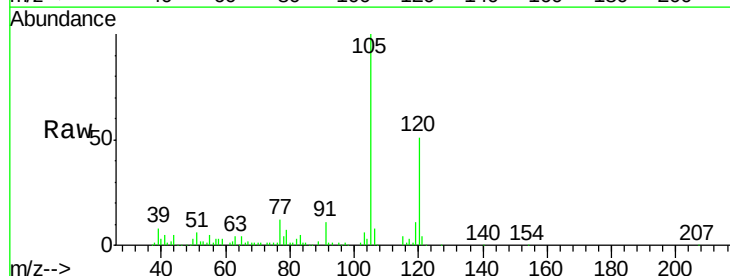
Acq: 21 Feb 2019 16:39

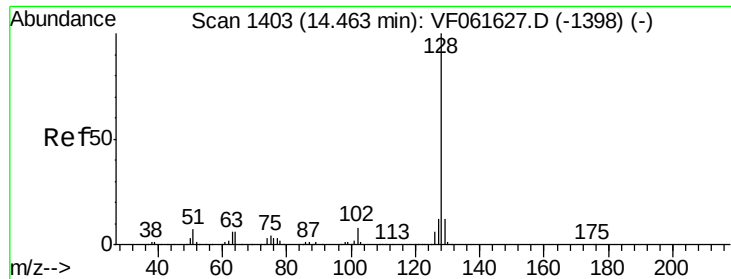
Tgt Ion:105 Resp: 49076

Ion Ratio Lower Upper

105 100

120 50.7 26.1 78.3





#95

Naphthalene

Concen: 14.734 ug/l

RT: 14.46 min Scan# 1403

Delta R.T. -0.00 min

Lab File: VF061701.D

Acq: 21 Feb 2019 16:39

Instrument :

MSVOA_F

ClientSampleId :

HD-01-022019

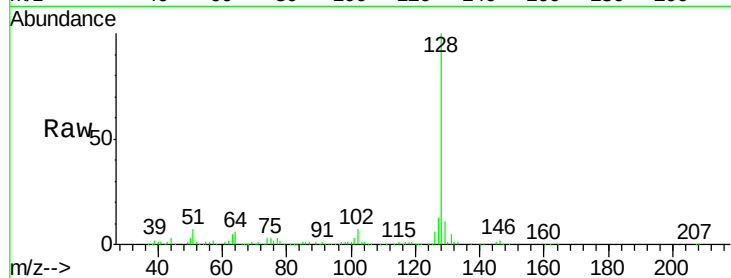
Tot Ion:128 Resp: 137040

Ion Ratio Lower Upper

128 100

127 13.3 9.8 14.6

129 10.9 9.4 14.2



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

